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An Essay
on
Bilious Remittent Fever
of
Charleston S^c Carolina

by
Sam^l Benj^l Rush Hinder

Passed March 25th
1824

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It is not with the vain hope of contributing any thing new in practice or amusing and instruction in theory, that I have undertaken this, my first essay; but rather in conformity with the rules and regulations of this University - The subject of which it treats is one, which deeply interests the mind of every medical practitioner, and involves the welfare of that section of our extensive country to which I belong - As regards its general history, I may appear to exaggerate, but to confirm my statements, I would refer to those who have witnessed the disease as it occurs with us - And that I may not incur the charge of being attached too much to, early principles relative to the treatment laid down, I hope it will be remembered that no cause exerts a more marked influence upon the nature of man than Climate, and that the same remedies in one climate will not always suit the same disease in another - This remark is daily verified - With these few observations, if this essay answers the object for which it was intended, my most ample wishes will be gratified -

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The subject which I have selected for my inaugural
essay is the Bilious Remittent Fever— In this attempt, I
will give as comprehensive and, at the same time as con-
cise a view of its character, treatment and terminations, as
my time and experience will admit— Further will I trust
alone to my own observations, (ample field for which has been
afforded, by my attendance at the Hospital of Charleston
for nearly three years) but to confirm my statements I shall
resort to the experience of others whose reputation entitles
them to a degree of credibility which may be denied me
as a tyro in the profession— And here I would beg to re-
mark that the disease as described by myself, may ap-
pear essentially different from that in our elementary works
upon the subject, but it is only for Southern physicians or
those practicing in tropical climates, to determine whether
my description attaches more importance to it than is
warranted by facts— Let the numerous families who
are annually clothed in the sable garb of mourning de-
cide whether my statements have been embellished by
the fervor of imagination, or the more certain and sa-
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satisfactory evidence of truth and observation—Scarcely a
 summer leaves our State before it has forever dissolved
some of the strongest ties of friendship and affection—The
 enterprising stranger too, who has relinquished respected
 friends and relatives, to seek that hospitality and liberty
 which is refused him in the land of his birth, avoids one
 evil, but to sustain another and more fatal—So dangerous
 and far spread is the influence of this dreadful malady
 that it may almost be denominated one of the "Opprobria
Medicorum"—No length of residence near its sources
 can completely acclimatise one, but many instances are
 known where a residence of thirty or forty years exposed
 to its influence has been of no avail and the miserable
victim of incredulity or obstinacy has been felled at last
 by its power when perhaps he was most securely lulled
 to rest by the fancied preventive of habit and custom—
 Nor will one attack prevent the recurrence of another,
 but as often as exposure to the same causes exist, so often
 will the disease return—Should any one be so fortunate
 as to come off victorious ^{escape after} over repeated attacks, still

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such a train of troublesome maladies are left behind as will scarcely ever be totally eradicated by an after life of temperance and caution. If such then are the consequences of this much and justly dreaded disease, how cautious should we be in forming our opinions ^{respecting} its treatment and cure. Our endeavours to subdue it should be unceasing and persevering, no danger, no labour and no expense should be dreaded which tends to throw any light upon a subject of such immense interest to the community. I shall next attempt to point out the symptoms, most common modes of treatment and make any other remarks upon the subject as may have any connection with it—

In the lower or Eastern portion of our State this form of disease is by far the most important we have to contend with, when we take into consideration the great liability there is to receive it, the danger consequent to an attack, the frequency of its occurrence and the great responsibility we incur with regard to the plan of treatment we pursue — Its first attacks are seen as early as April, from which time it increases in frequency until the winter months when it abates — Its prevalence and violence are however greater in the months of June, July, August, September.

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ber and October - Some cases are as late as December or January, but the seeds of disease in these latter cases were imbibed during the previous summer - The symptoms vary considerably not only at different periods of the season, but even at the commencement of the febrile state being by far more strongly marked in some cases than in others - This fact demands our most serious attention, for by using those remedies in the first stages which are either totally inefficacious or injuriously applied, we may lose time which can never be regained with the patient sunk in a moribund system to remedy or follow - Of the seat of fever various theories have been advanced; some have fixed it on the brain, others in the viscera or lungs, and others again affirm that the ventricles or the abdomen are the principal sources - In our climate at least, the last appears to be the most correct, as the abdominal symptoms are the most prominent, the biliary apparatus being either wholly disordered or its secretions retarded, which has given rise to the name by which it is designated - It is indeed this appearance singular when we consider the cause from which it originates, viz. the effluvia arising from vegetable decomposition, or other circumstances equally capable to produce it

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Having made these remarks I shall now endeavour to mark out
the most prominent symptoms — This disease first makes its ap-
pearance by a most singular sensation, which has been by some de-
scribed as a heavy weight, and by others as a dull, obtuse, pain over
the epigastric region and along the upper surface of the Liver —
During this period the person experiences want of appetite, with an
uneasy load at the stomach causing nausea and a constant desire
to vomit — This lasts several days previous to the attack accom-
panied with languor, debility, constant yawning, and sighing — The
patient complains of restless sleep especially at night, being unable
to sleep, or should he for a moment close his eyes, his slumbers are
interrupted by sudden starts occasioned by uneasy and dis-
tressing dreams — This is frequently succeeded by a chilliness, al-
though not invariably so, and seldom or never proceeds to a rigor.
This symptom has, in most cases I have seen, made its appearance
about midnight or before the dawn of day, — Distinguishing pains in
the head, back and calves of the legs soon come on aided by many
be ascribed to the pain in those parts consequent to the fatigue of
a long journey — The pain in the head affects generally the fore-
head, sometimes attending through the whole course of the dis-

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disease at other times subsiding soon and ~~not~~ again returning. The determination to the head is in a few cases so violent as to occasion some mental confusion from the outset. The face soon becomes flushed, the skin hot and dry, the eyes inflamed and suffused, peculiarly sensible to light and a pain frequently felt in the ball of the eye; it is sometimes brilliant and expressive at other times dull and heavy somewhat colored with a bilious tinge. The thirst is excessive and can scarcely be satisfied, the patient being greatly relieved by the agreeable coolness it imparts to his parched tongue and fauces. The respiration is irregular hurried and laboured. The pulse full and bounding, frequent and irregular varying from 120 to 130 beats in the minute. The countenance expresses the deepest anxiety and solicitude, the bowels generally in a torpid state, although in some instances diarrhoea and dysentery are precursors of the attack. If stools are obtained, they are of a dark brown colour, frequently mingled with mucus and the patient in passing them complains of a burning sensation around the verge of the anus. The tongue which in the commencement of the disease presented an ash coloured white appearance is now changed to a golden yellow or dark brown with a pecu-
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line red line around its edges; this feature increases as the disease ad-
 vances until a crisis is formed when it falls off and leaves a clean
 surface underneath, in some cases it is moist, in others dry - the sto-
 mach is frequently in so irritable a state as to occasion a great deal
 of trouble and inconvenience, and in a few cases I have seen, when the
 patient had been without medical assistance for several days, this
 symptom had proceeded to such an extent, that no measures de-
 sired could break it - When not soon overcome it is certainly one of
 the most ungovernable and distressing symptoms we have to ob-
 viate - Nausea at least accompanies every well marked case.
 In fact the disease nearly always makes its attack in this way
 the vomit also is high coloured, and scanty, causing a burning
 sensation along the rectum when passed - This state lasts
 from 18 to 24 hours, when generally the pyrexia leaves the pa-
 tient with at least an abatement of all the most violent symp-
 toms - The heat and flushing of the face and forehead disappear,
 the languidity of the blood vessels and sensibility to light of the
 eyes subside, and the whole countenance regains its placid
 and tranquil appearance - The pulse returns to nearly its natu-
 ral standard - the skin in some cases is covered with a fine
 fur.

[illegible]

face dephlegmized, is soft moist and pleasant - the pain in the
back and legs are greatly moderated and his extreme restlessness for
sakes him - His friends are now inspired with the hope of a persua-
sive recovery; but alas, too often are the most sanguine ^{hopes} ~~hopes~~ ^{ill}
ring a remission, blasted by the succeeding exacerbation, ^{short}
time but serves to dispel the illusion - The duration of these remis-
sions vary, and are generally in proportion to the violence and duration
of the exacerbations - In some cases however no material remis-
sion takes place, but the disease taking on the continued form,
runs its course uncontrolled, on to death - But in some cases
there is a distinct intermission which lasts for a few hours only.
Long, if not controlled by previous remedies, the exacerbation
returns with increased violence and renewed vigor to the
assault - The pain over the epigastrium becomes greatly ag-
gravated, anxiety resumes her station, the pain in the back
head and legs are insupportable, the pulse is tense, frequent,
and intermitting, the tongue brown dry and parched, the sto-
mach exceedingly irritable, the patient sighs frequently and
deeply with laborious and quick repeated breathing, his discha-
rges are deeply tinged with bile and in some instances I have
seen

[illegible]

men pure bile spit up without exertion or retching - From this uni-
 versal disturbance of the body, the mind does not escape - Delirium
 sometimes low and wandering at others wild and maniacal afflicts the
 unhappy patient - To such extremes does this extend, that no account
 of their feelings or situation can be obtained from them and frequently we
 were compelled to leave them to their beds to prevent them from injuring
 themselves and others - no efforts could induce them to take medicines,
 but they became violent and outrageous, exposing themselves in the
 street about some domestic concerns or wishing to avoid some dan-
 ger which they apprehended would befall them - This state of things
 cannot necessarily be of long duration - A crisis usually takes
 place on the seventh day, but in the severer cases death follows
 the exhausted patient on the third, fifth, or sixth day - Should he
 survive beyond these periods, he is doomed to endure a long and
 protracted convalescence, or after thirty or forty days of dis-
 tressing illness, at last sink in the grave around which he had
 so long been hovering - Jackson in his sketch of febrile diseases
 says, "that a recurrence then takes place sometimes on the same
 base, and sometimes of a different, it proceeds through another
 septenary period at the close of which it ceases or changes its
 form



gain" after which - "Another course commenced and proceeds to
 another termination" so on through several more until death
 or long and tedious recovery is the result - When by judicious treatment
 or fire strength of constitution, the patient has passed beyond the
 first course above delineated, we are then to look for another set
 of symptoms, somewhat modified in their character, but essentially
 the same & founded on a similar basis as before - The tongue be-
 comes again more often of a shining red appearance, sometimes
 rough and dry with a thin light coat or epithelium over its sur-
 face - Sometimes black and crusty - the teeth are covered with a
 thick black deposit - the thirst increased to a tormenting degree
 or not more than natural - the bowels in some cases become in-
 flamed & slight diarrhoea follows - The colour and quality of the excre-
 tions are also various being either black or greenish - thick and
 viscid or thin and watery, sometimes copious at others very scanty
 The skin is either contracted and withered or relaxed and flabby
 and frequently of an blue colour or cadaverous appearance -
 the perspiration cold and clammy, sometimes profuse at others
 very little or none at all - Sometimes over the whole body at others
 in particular parts as the neck and shoulders - The pulse slow

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weak and flapping a hair and jerking - Delirium is also a frequent at-
 tendant at this period, although it is sometimes violent yet more
 frequently it is of the low and muzzling kind, the patient picks at
 his bed clothes or catching at something around him - if spoken
 to he looks with a vacant stare in your countenance, and either
 answers unmeaningly to your question or with an idiotic smile
 remains silent - About the fourteenth day of the attack something
 like a second crisis forms - this is marked often by a free flow
 of urine, sometimes by evacuations of a bilious character generally very
 copious - It now takes on a new character, assuming somewhat of a ty-
 phoid cast, in fact it is a mild degree of typhus - This period is
 characterised by a continuation of delirium, for the disease appears
 now to have located itself upon the brain - the patient is fable, lies upon
 his back and seems much disposed to sleep, his eyes are languid
 his tongue hard and dry sometimes clean at other times covered with
 a dark fur and tremulous - the teeth encrusted with dried sta-
 dy - fætid breath - the bowels either torpid or labouring with in-
 stant diarrhoea and the spots on which blisters may have been ap-
 plied become gangrenous - This state of affairs bespeaks the ut-
 most and most fearful degree of debility and shortly con-
 cludes



lent survive it, his recovery will be long and protracted and seldom
 perfect, for the structure of the venous part of the stomach ar-
 rery is often more or less destroyed, and renders him liable to a
 "varicose" existence, or most tedious cachexia, which ultimately
 terminates in incurable decay. — One form of this disease, and
 by far the most important and dangerous is, when the disease
 has been taken in "suddenly" — generally appearing in changes
 when imprudence or occupations render them liable to an attack,
 such as boatmen, stagecoaches &c. — These cases are very irregular
 and require the most vigilant caution of the practitioner to detect
 its approach. — After the second or third day of his illness the pa-
 tient feels perfectly well, complains of no pain, perspires freely,
 his skin is cool and pleasant. He walks about the room something
 within an hour of his death, even aphoristic returns and the only
 mark of disease which presents itself is great thirst and a
 sense of weakness. — But these signs always are apt to be fallacious. —
 Often I have seen them with all these flattering
 circumstances in the forenoon suddenly take a fatal relapse
 without any apparent cause and expire in a few minutes. —
 Such is the character of one of the most destructive calamities

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afflict our section of the country — I would gladly have delineated them in a less dense and important form, could I have done so compatibly with truth, but I have progressed with the same principles I set out with. viz: those of facts and observation. —

Having marked out the course of the disease I shall next proceed to speak of its Prognosis — As all diseases and fevers especially are a compound of morbid and salutary symptoms their tendency to a happy or fatal issue has been carefully watched and a description formed by the prevalence of one or the other — This rule would hold good and a proper principle for prognosis be established were always the same set of symptoms to lead invariably to the same result — But in the disease under consideration, its character and forms are so varied, its changes so rapid and unaccountable, that we scarce ever dare to confide upon any symptom, however favourable, or ought we ever to resign upon the first, unassisted by the medical art, however desperate his case may appear — It is our duty to watch with the most scrutinizing attention its progress, and never to believe the patient out of recovery before he has nearly regained his former strength.

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and vigorous. These remarks are not unimportant, for to one unaccustomed to its insidious character, every thing may appear in the most proper and favourable turn towards recovery, when owing to sudden changes may occur as at once deprive the patient of his existence and conclusively prove the fallacy of his opinions. - In this branch of the subject appears to be involved in so much difficulty, it can scarcely be proper to establish any general principles, ~~where~~ our decision must materially depend upon various circumstances and accidents which may occur during the progress of the disease. I shall now proceed to recount the symptoms which are commonly supposed to be unfavourable. - The age, constitution and habits of the person determine whether, for the robust and plethoric we must be liable to suffer from its attacks than the thin and spare - Should the patient be intemperate or what is called a "high liver" we shall have reason to fear the results even in the mildest form. - Strangers also are far more severely handled by it than natives, indeed, if lately arrived they not frequently recover from it - When the periods of the coming on of the exacerbation are anticipated, we would draw unfavourable conclusions - When the skin is dry and cold or the

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2. *Id.*

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1. The first step is to identify the problem or question that needs to be answered.

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dysphoria, if there is any, be of short duration, etc. and always
 should his stools be black and very foetid, & low muttering delirium.
 heaving at mouth in the air, or at the back of the throat - his pulse low
 and little, tremulous and intermitting sometimes not perceptible
 even at the elbow, with subsultus tendinum or cropping of
 the tendon over the artery; his breathing short and laboured;
 his urine high coloured, scanty and luted, a cadaverous sweat
 of the body, weak and faltering voice, hemorrhage from
 the nose or other parts; his tongue tremulous and covered with
 a dark coarustation & with a collection of fordes about
 the teeth, cold extremities, coma, constant disposition to vomit
 his food and our remedies incapable of producing their
 accustomed effect, When in addition to all these, patient
 takes no notice of his physicians or friends or any of the ordinary
 occurrences of life, but becomes churlish, cross and gloomy,
 when we observe that those spots upon which blisters may have
 been applied become gangrenous or have a tendency to it,
 we may be assured that the utmost danger threatens and
 the case is almost desperate - On the contrary if the pa-
 tient is a native, temperate both in eating and drinking and

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lively resorted to medicine, his evacuations profuse, and
 copious of some duration, his skin soft and moist, and dis-
 phorous lasting for some time, his pulse nearly that of health, his
 tongue clearing away, no nausea or heave, and the sto-
 mach gradually acquiring its tone, and appetite for ordinary
 food - the evacuations destitute of uncommon fetor and ac-
 quiring a more healthy color - the eyes lively and unmoist,
 and what is an almost certain symptom, the breaking out of
 cat o'it, or phlegmonous humors, over various parts, calls
 critical abscesses; if deafness also comes on in the latter
 stages dependant in every case I have seen upon abscess
 forming in the ear, when in addition to these the Liver
 appears to assume a tendency to take on the intermit-
 tent form, and the patient becomes more than an affec-
 tionate to his relatives and Physician, it is then that
 "Hope half mingles with the dead man's prayer" and we
 are induced to look forwards to a favorable termination
 to our cares and labours, and to the re-establishment of
 his health and vigour - Having now established my
 prognosis I shall next proceed to speak of its diagnosis

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in the manner by which it may be distinguished from any other disease of a similar kind - This I conceive to be an important point as it is impossible for us to treat correctly a disease before we know what it is not - From its peculiar and more marked symptoms it is so clear that it can be mistaken for any other - But as its identity with yellow fever has been insisted upon by many, I will devote a few words in opposition to their opinions and shall state the most striking difference of symptoms, post mortem examinations, and other material circumstances connected with the two diseases - And first the tongue which is seldom in its first stages discoloured of that pinkish and thick fur formerly mentioned, is in yellow fever says Dr. Levine of Charleston "clean, gummy, being very seldom foul or covered with a white fur" - In bilious fever although in some cases when its first stages have not been attended to, there is a most distressing & constant discharge of vomiting yet it is far from being invariable in every case - Now in yellow fever the Doctor continues "like bilious fever in its latter stages, the patient is prostrated

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led, yet the physician cannot as in the foregoing cases
 see arising himself of the need of stimulus to arouse through
 the medium of the stomach the dormant and flagging prin-
 ciples of life; being forced and driven to this class of remedies
 by the permanent irritability of stomach in all yellow fever
 patients, which renders it little less than death to administer
 any thing of an exciting or stimulating quality. "It is
 seldom in Bilious fever that the irritability of stomach
 progresses to such a degree — Nausea is also another
 symptom of yellow fever, which we seldom or never meet
 with in the other. — Hemorrhage from the nose, gums and
 even from the eyes, you frequently meet with in the for-
 mer and seldom or never in the most violent cases of
 the latter. — Delirium is also a frequent symptom of the
 one, in every case I have seen, I have never observed other
 in the other. — In yellow fever, its subsidence is never
 marked by any critical or perspiratory discharge. — In
 Bilious fever we all know that a remission never takes
 place unless accompanied by some discharge from the
 the perspiratory, urinary or other organs. — Having stated
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the most striking difference of symptoms between the two diseases, I will next compare the post mortem examinations - And here I will derive great assistance from the inquiries of Dr. Prichard, than whom I can bring forward no more satisfactory authority, and whose researches on this, as well as other subjects, have shed a refutation on our science as lasting and splendid as his fame will be immortal - My own dissections of the numerous cases which have occurred in our Hospital fully illustrate that these views are correct - The Liver in Yellow fever, is usually of a pale and flabby appearance, on the contrary in Bilious Hemulent, that organ is humid, enlarged and of a blue or chocolate colour - The matter of black vomit ejected, or found in the stomach and sometimes in the intestines, has never been discovered in the gall bladder, liver, or any other viscus or cavity - The stomach has been loaded with this substance, when the liver and gall bladder were perfectly healthy - Besides the matter itself is essentially different from bile, the former being sometimes acid, and when separated from coarser substances, entirely insipid; whereas bile can never be dissolved

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Discoloration to the vomit — The appearance is also an essentially
different, for if a portion of the vomit be poured upon white
paper it will bear a dark coloured mark with small black
specks, but if the same experiment be tried with the latter,
however concentrated it may, or however dark it may seem
upon inspection, it will still display the same binary tinge.
These facts fully evince that the black vomit is not
a secretion of the liver, but rather of the stomach, in-
duced by some peculiar irritation analogous to that
caused by poisons — There are also many external circum-
stances which prove the non-identity of the two disorders —
Should any person reside a length of time in a place
where yellow fever is frequently prevalent, he may be
fully assured of safety for the future, but on the con-
trary no length of residence can secure one from the
attacks of Bilious Fever — And should he be attacked
by the former & recover he need never fear a recurrence
of the attack. This point has been strongly disputed,
but the greater part of the medical world are now fully
convinced of its truth — The recovery also from yellow
fever

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fever is quick, whereas that from Bilious fever is slow tedious and gradual, leaving the system almost completely shattered, continually liable to relapse, and the patient more and more liable from every attack to the recurrence of another. Another fact for the authenticity of which I can vouch, is, that, the inhabitants of our city consider themselves perfectly secure from Yellow Fever during its prevalence, whilst during the same season it would be considered an act infinitely more mad than mad, for one to go into the country. These few but striking facts are surely sufficient to convince the most sceptical of these errors.

The state in which the system is left, after frequent attacks of this disease, is a point deserving notice. This consists of a chronic derangement of the functions of the hepatic & portal system; in fact all the viscera of the abdomen are more or less involved. Should a traveller, haphazard through the lower section of our State, he meets every where, meet, among the lower and indigent order of society, with persons straggling, mixed with the savages of this continent.

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lent disease, as sallow complexion, emaciation, and a general anæmic diathesis — These appearances are accompanied with irregular bowels, chronic diarrhoea, high coloured urine, hiccups and fulness over the liver, nausea in the morning, and evening, sometimes slight fever in the evening, with oedematous swellings about the face and legs which but too frequently terminate in fatal dropsy from the well known sympathy between the Liver and brain, that organ I have also seen seriously affected. We have at present two instances of this in our Hospital. In one case it terminated in Intermittent of the tertian type of a most singular character — The paroxysm being only discoverable, by a fit of low spirits and weakness, while the apyrexial state was marked by a corresponding degree of exhilaration. This singular case was cured by the usual remedies for Intermittent but his idiosyncrasy as in the other case remains incurable, they were both frequent to the subject of this disease. I shall next cite a case strikingly illustrative of the derangement of the abdominal viscera — From one of



one patient who died this summer, we took a spleen weighing, eleven pounds which is preserved as an anatomical curiosity in the Hospital. This man had long been an overseer on some of the plantations in the vicinity of our city, of intemperate habits and a frequent subject to, both, Intermittent, & Bilious fever. Johnson asserts, that these abnormal disarrangements, & especially of the spleen, are but too often the result of long residence between the tropics. With regard to its termination in dropsy, this occurs too frequently to require proof or be surprising, is the pathologist.

Post mortem examination. Dissections of persons who die of this disease, satisfactorily demonstrate that the action of the morbid cause exerts its influence, principally upon the contents of the abdomen. Each was a male that they do not exhibit the disease in action, but the damage which it commits upon organic structure. And first the liver in protracted cases or those in which cerebral symptoms were prominent appears to be a partaken in the general injury. The vessels of the liver were turgid, and frequently effusion was found between the membranes over the brain and sometimes in the vessels themselves.

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but in the greaterity of cases the gastric or abdominal symptoms are more frequent — In those which I have examined, the liver was uniformly hard, tumid and very much enlarged with other signs of congestion and of a bluish colour. The gall bladder always distended with bilious matter, of a deep brown colour, and lax consistency. The stomach sometimes containing a fluid of a green colour, thin and resembling water, at other times nothing more than the mucus which medicines used a few moments previous to death. When the internal surface was exposed the vessels were turgid, and frequently an infiltration of blood seen between its coats. The intestines not unfrequently partook in the above appearances, and in some instances shots of Aphæolus were found upon this surface, especially if dysenteric symptoms had attended. Often adhesions were formed between the liver, stomach and peritonæum. The spleen seldom or never escapes the derangement of the surrounding viscera. These are the most striking, and common appearances of dissection. Indeed they seldom vary — They satisfactorily prove that the abdominal viscera are the principle sufferers. Let us next enquire

what



what are the causes which produce such deleterious effects upon the animal economy - These I shall divide into the direct - and the exciting or predisposing. The remote cause of this disease is undoubtedly Marsh Miasmata. It is by this that various quarters of the globe, have been depopulated. It is a well established rule that those countries which are incumbered with vegetation have a contrary effect upon the human existence, and that a low flat country gives rise to many disorders, next, to be the various combinations of heat and moisture - Can we then wonder at the extensive production of a deleterious miasm in some parts of our State, when we take into consideration the local circumstances under which we exist - The lower portions of Carolina for forty or fifty miles from the ocean is but one continued tract of low marshy lands, exposed to inundating floods, and the scorching rays of a ~~brilliant~~ sun. As marsh miasmata then are generated by the combined action of heat and moisture upon vegetable matter, and as the lower countries abound so much in rice fields and stagnant ponds, it must be sufficiently evident that

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simple materials are afforded for the production of this variety
 kind, &c. - I will now speak of the exciting or predispo-
 sing causes - These are various and are such as constitute
 conditions or lead to being disease, interacting and not to join
 it. Among the principles of these is change of climate. The
 nature of our climate, like all others under the tropics, is
 somewhat exaggerated from little to its sudden and dan-
 gerous vicissitudes, which says Dr. on "Human Diseases
 originating from the laws of Hygiene" this fact is dis-
 tinguished in this age of emigration, for those persons who
 remove from Northern latitudes, or European countries -
 This may result from the fact that colder countries are
 destined to a phlogistic diet, and the few who, per-
 haps arrive among us from those regions, the nervous
 power acts when a system is together in accordance
 to its influence. But this is not only true with regard to
 diseases but even nature of one section of the diet can
 not emigrate to another with invariable impunity -
 A slow and very frequent exciting cause is intemperance,
 especially among Europeans - With respect to contagious

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we recollect what organs are the primary sufferers in this
 case. What ever tends to debilitate the system is an exciting
 cause, therefore a person habituated to the use of ardent spirits
 becomes weak and enervated, his liver and its secretions in-
 creased and vitiated &c. in such a situation the slightest
 exposure to the venereal cause would be dangerous if not fatal.
 The passions and emotions of the mind also are in the
 cause which predispose to the receiving of this disease,
 they are generally the depressing kind, viz. grief, anxiety,
 chagrin, &c. &c. - nor is this fact restricted to
 individuals alone, but the same effect will be produced
 upon bodies of men. Thus Johnson informs us that as
 late as the army which besieged Flushing were stricken by
 the expectation of battle and the certainty of conquest, al-
 though exposed to the causes of fever, in their most en-
 ervated degree, still they remained healthy, but when
 from some manoeuvre of the enemy, the expedition failed,
 and the more saddening and gloomy rays of disappoint-
 ment were substituted for the cheering beams of hope,
 then these combined causes began to operate and disease
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the time runs to a most alarming extent - It has been
 so that has produced the most striking effects in aiding the
 in the course of time, this may account in some measure for
 its rapid & unobscured progress - These are the most common
 causes of this disease, but there are many others in detail
 of which would be both tedious and unnecessary.

Treatment. We have now arrived at that most im-
 portant branch of our subject, which being the "modus procedendi"
 and requires the most careful attention of every practitioner,
 both as regards the prescription of the medicine, and the
 administration - But such is the variety of forms, and the
 extent, and such various measures, the object has been to recom-
 mend by authors of repute, and have not been adopted nearly, that
 in our first chapter, because we are confounded and perplexed.
 It should be recollected that the same disease is met, but in
 various forms of climate, and that every case is to be met
 with near similar, but not identical - The disease in question
 is one in which often we are obliged to attend solely to symptoms,
 and at other times there is no indication to treat, or we can
 adopt our measures - In such instances the knowledge of

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and us by the marked appearances of digestion in combination
 with the previous symptoms will tend to lighten our path
 through this perplexing maze. My plan therefore is to see
 what that plan of practice which I have seen used and
 which was certainly proved as successful as any other which
 has been recommended. Is the disease is dependent on infla-
 matory, vascular action must be reduced, and for this pur-
 pose the lancet appears to be obviously proper. But although
 this may appear sound and correct in theory, and has received
 the unqualified sanction of many men of talents, still
 experience, the most inflexible test of truth, has shown that there
 is one climate if not totally to reject, at least to limit its use to a
 very small number of cases. It is a well known fact, that
 even in heat the caution in the use of the lancet is necessary
 to the right treatment. In cold, inflammatory action might be
 of the severe suppurative nature to produce debility; but when
 it is so called the continuance of the disease itself it seems
 even strange that evacuation is necessary in the result
 of the reaction caused by the extent of the disease. But the
 result is that the lancet is not to be used in the same manner
 in all cases.

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that the temperature is to rise, and no regulation is to
 be made, but left to its own course, and we are to be
 guided by the thermometer. The same reasoning that
 leads to the use of cold water in the treatment of the
 disease, that I cannot not be immediately obviated.
 In fact, some cases imperiously demand it. In
 instance we are called to a patient of robust constitution, with
 a rank throbbing of the temporal arteries, great pain in the
 head, back and waist of the ribs and a high excited action
 when we may thus resort to bloodletting, and as no specific
 can be established a relation to the disease to be abstracted,
 we should be regulated by the circumstances of the case,
 showing always in mind that this is the only period, but when
 comes the temperature is high, then it seldom can be resisted,
 that if taken early in the disease, more or less is avoided,
 but if allowed to progress, it will soon become burning, and
 overpower the system - having then exhausted every
 view, if necessary, however, we should be guided by the
 state make some it must imply, on a low the system -
 and we should attend to these circumstances and our own



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is not always suitable and a milder one may be substituted for
 the use of Spasmodic and the P. Salimony which is not always
 applied in its operation by various deceptions of Chamon, to be
 a harm to the P. Salimony may be used alone and
 there is no other more peculiarly fitted for the use of the nature
 being more revolutionary in its effects, to which we add the
 desirable advantages of Jaborite, Diathetic, Cathartic and
 somewhat tonic qualities. It is very freely used with considerable
 success by our Slavers on the coast of Africa and at the desert
 but unfortunately in some cases it cannot always be used.
 although when administered they may be repeated once or twice
 if necessary - They are most often resorted to in the
 early stages - In many instances the stomach is so weak and tender
 that their use is precluded from the fear of increasing inflammation
 and in addition to these objections, this organ is often so irritable, that
 in some cases, we incur the risk of giving it a habit of vomiting which
 may become both difficult & often insupportable to arrest - Still with all
 these objections to their use, trust to them in a general case, in some
 cases by other remedies during the early stages - The next remedies
 which I shall take notice of are cathartics which for their depurating

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and evacuating effects, whether previous or subsequent to the administration of an emetic are very beneficial. Of this class of remedies there are so many, nearly all of which may be judiciously used, either alone or in combination, that I shall only take care to consider some those which are in most general practice. His countryman Johnson to commence the treatment with cathartics and this has often proved successful, but the most usual plan is to administer emetics, to be repeated if necessary, (especially if an onrush or vomiting arises in the attack) after which a strong dose of cathartics maintains an open and healthy object, set before. In robust constitutions I have seen a combination of Greenough, Nux and Salt & Elix many a way with decided benefit, to which may be sometimes added small portions of Calomel. This often starts at the onset of the disease, and health is speedily established. Calomel alone is excellent and Johnson has recommended it in drachm doses three times a day, but its operation is rather too slow and requires the union of some more active article to hasten it. Senna has been long used for this purpose, and without diminished benefit. In desperate cases, and when we wish to

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to produce ptyalism quickly, I have seen from three to ten grains of Calomel given every two hours and a small dose of ipecacuanha in the intervening hours, this has always proved the most speedy method of subjecting the system to the mercurial influence, which certainly is an exception to the rule, that if we wish to produce salivation, little should not be given to the extent which produces salivation. The reason for this apparent contradiction, I will not attempt to explain, but will vouch for the fact. During the last summer however this medicine was little used in our Hospital, and a combination of Sulph. Potassae and Salak was substituted with equally successful results, without any of the distressing and odious consequences of the mercurial practice. The cases however were evidently milder than ordinary seasons. In my estimation, nothing will be found so good as Calomel in the violent forms of this disease. Small portions of Cast. S. S. may be added, so as to excite action upon the skin. Diaphoretic medicines although useful, should by no means be relied on, as auxiliaries, by
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some beneficial. They are generally preferable in the early stages
 than in combination with some cathartic as Jalap. Cathartic
 action will not always remain upon the stomach, to obviate this
 a resort should be made to some acridal mixture. The saline
 mixture either in a state of effervescence or not; lime water; and
 many others used for this purpose. As another method for re-
 ducing inflammation by no means the best considered
 is the cold bath, it is only astonishing that it should so sel-
 dom be used, when we reflect how grateful and desirable it is
 to all febrile conditions. There are three methods of admin-
 istering it, viz. affusion, immersion and sponging. The first
 is the most powerful, the last is the least dangerous. Affusion
 is performed by placing the patient in a large tub and several
 buckets of water are poured over him, if this is thought impru-
 dent the second may be resorted to, but many persons refuse to
 submit to either of these, we may then sponge him or wrap
 him up in wet sheets. As a substitute for water we may of-
 ten use vinegar, or brandy, whiskey or rum, these last in-
 gredients afford a most agreeable sensation by their evaporation. But
 like all other remedies, this is also at some periods improper.

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It necessarily is indicated, by a hot dry skin, great determination to the head, with a full flushed face and full, hard, frequent and tense pulse. Curren advises us when the exaltation was very high or immediately after its declination has begun. Its use is contraindicated when the skin is cold clammy & moist, feeble pulse or much below the natural standard of debility. Should the patient remain cold and shilly any length of time after its application it should be immediately abandoned. These are the principles remedies during the first or inflammatory stage, with them we should keep our patient cool and quiet; not too much light, very little company or none at all, every thing about him clean, and his room frequently sprinkled with vinegar to prevent any offensive smells. Keep constantly in view that while we reduce morbid action, to husband the powers of the system and lessen as little as possible the *vivacitas* - another remark of the highest practical importance; that during the remissions your utmost skill and energy should be exerted, as it is then that remedies act with more promptness and fidelity; time them so as to meet the return of exacerbations. Medicines administered during the exacerbation

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when are useful and often injurious — But it is not with a
 single blow that we can hope to destroy this disease; we can only
 succeed by a constant perseverance of active remedies — Inflan-
 matory symptoms still running high, we may change our mode of
 application to the diaphoretic plan, and then of the more stimu-
 lating kind combined with purgatives — The best usage for this
 purpose is the Sassafras and Sassafras, to which I have
 now added with advantage the Hydrated Calomel, and as we
 desire to these may be used such applications as when the ex-
 crement surface — It requires bath & any time may be used —
 This may be so easily effected, and has often been a most signifi-
 cant benefit, that it would be criminal to neglect it — Should
 a regular apparatus not be at hand, all of us beneficial effects
 may be obtained by wrapping up a heated brick in a flannel,
 and enclosing it under the bed clothes (which should be com-
 munal) so that the vapour may be more equally diffused,
 after this is to be poured vinegar or anything else, proper —
 When at this stage there is no longer irritability of Stomach;
 which may be returned by a Pectoral to the Cerebrum — I was
 told by a respectable practitioner of our City that by the a/c



sometimes, one along the spine during the same time, & limited, as the
 early effect on the return of the excretion, it was rather pre-
 maturely or received much relief, in every case in which he
 had tried it. But this one of the most troublesome and common
 symptoms is constant with and requires most frequent care
 and attention. More than can I have seen, it last through out the
 case without any intermission and the head seems unable to
 sink it by any means devised. Should just stomach be the
 cause and the patient have sufficient strength remaining, an
 emetic may prove serviceable, but as the continuing sometimes,
 the patient becomes excessively prostrated, and we must resort
 to every remedy which may have the least probability of success.
 For this, by an the, both combined and uncombined, in short
 no efforts should not be relaxed for a moment. Soda water is
 a state of effervescence, and given often, but given as often as
 circumstances may indicate, the effervescence, clunght, dative
 mixture, tart. alkali, distilled water repeated, must have some times,
 strong brandy and water, or infusion of Coffee, six grain opium
 Oil, ginger, cloves, cinnamon &c. have often proved good, but
 will sometimes fail. There a resort to mercury will often prove of

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Operations; but he often unfortunately joins the stomach will not
 take even this. In the truly alarming cases, I saw two cases, in
 which having tried nearly all the above remedies without success,
 the last operation was tried and succeeded. It was given to the
 extent of one or a half an ounce, not, however, continued with heavy
 powers appear to be increased. I should not be led to suppose
 that it proceeded from excessive inflammation of the stomach,
 and the patient be of robust and plethoric habit, and before
 any symptoms of resolution are present. I have thought that
 venesection may be tried on the same principle as in gastritis;
 when no internal remedies can be given, why not use mer-
 curial ointment well rubbed over the whole surface, so as to af-
 fect the system. These plans I have never seen tried, but were
 suggested to me by reflecting on the disease. Constipation
 is often an obstinate symptom of the disease and we should
 neglect nothing to overcome it; in the early stages, we may
 bleed as a relaxant, arising as some have supposed, from
 spasm of the intestines, on the same principle the warm
 bath is highly recommended. Enemata, cathartics, of vari-
 ous kinds & many other remedies of like nature have been
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used - No direct rules cannot be laid down for every case which
may occur, we should be prepared for every emergency -
Among other embarrassing obstacles to the comfort of the patient our
administration of remedies is obnoxious. This is more frequently
attributed on the latter stages, and is owing to the presence of the
disease, as well as the most constant and pernicious cause
of the prostration to receive. This is manifested in his characteristic
disorders; much, opium, camphor, castor oil, all the phos-
phates, ag. ammoniac, cast. oil, etc. etc. It has been
known to last for 8 or 10 days. In one case where it had existed
for four days, without any intermission, and without being
affected by the various blands resorted to, the patient was given
in doses of one drachm every half hour combined with brandy
and in a few hours totally recovered. Such a most distressing
and alarming symptom, depriving the patient of all rest and
gradually wearing him out, we should ^{not} relax our moment in
our efforts to remove it. All the symptoms I have mentioned
lead to produce a most alarming and often fatal, prostration.
Quinine is immediately to be called to our aid, Camphor in
3 or 10 grain doses dissolved in eight ounces of water, Camphor
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cases of the disease, it may appear strange that we never before
 that remedy which has been so copiously called the "Vermorel"
 of the "Materia Medica", Calomel. But observing the numerous cases
 which were brought into our Hospital, I hope I may not be deemed
 presumptuous in me to say, that I think it the most effectual reme-
 dy that has been used in this disease, not only as a purgative, but in
 all cases of difficulty as an adjuvant — The indications which de-
 mand its use are various and I cannot use a better plan than by giving
 them in the words of a respectable French writer, in verse — "If the disease
 makes its onset with heaving violence; if the disorder of the respo-
 nse generally an improvement as best; if the bowels of the con-
 stitution and the organs of the patient seem disordered to the view
 if the attack however slight, it was somewhat; if the action of the
 is so perturbed, seems to wear out the energies of the system; if in-
 sistent enters into a low condition similar to Typhus in all these
 cases the use of that divine remedy, Calomel, is indicated to remove
 and" It should be administered in doses proportionate to the cir-
 cumstances of the case. If severe it would give 1 grain the first
 morning and in doses of 1/2 grain the second evening the third morning
 and so on. It gives it to be used in a small quantity.



in the two granules, one is brownish-red, and somewhat flattened -
 considered (but) could be success at the entrance, here is still
 its higher part, as the granule, is an oblique, as the granule
 contains the contents of the granule - The granule is covered with a thin coat
 of granules, containing the granules for the, with a ~~thin~~ ^{thin} coat of granules
 is known to the world - The patient showed it as, they are like
 and should be considered of the granules to be found, as they present a granular
 appearance, it is more abundant than - and that is, the mouth within
 a granular film of saliva, it would be accurate to describe its use, as
 there is no benefit from phlegm and local affection, but it is to be
 regarded merely as a test of the system being under its influence.
 It usually accompanies it by a slight degree of local action, some
 kind of skin, and, more, in some cases, in some cases, in some cases
 means of saliva and granules and very common factors, in
 death - It is a very common affection and often, productive
 of very serious consequences, but surely this should not
 deter us from its use, as any deformity in the majority of cases,
 is preferable to death - When this action is once fully established
 the original disease in most cases is subdued and made to dis-
 appear - But this is not an invariable result, often the liver is

cases



never alternate, the violent action predominating during the remission
and the disease during the exacerbations, this continuing until death or
final recovery occurs one or the of the contending powers with victory.
As the Calomel has been objected to by many on account of its conse-
quences, I think that in slight cases and when the circumstances
would permit, other purgative medicines may be substituted for it.
In the instances of children it is always dangerous, often producing
them a species of ill in combination entering in gangrene and phlegmon.
It has been recommended to use Calomel to the extent of producing
stangury on the principle of revulsion, having never seen the practice
improved and therefore to offer an opinion when the subject —

I have thus endeavored to give as concise a view of the gene-
sis of febrile as this extensive and interesting subject would per-
mit, but before leaving it, I will state nature of that stage of the
disease into which the system is liable to fall very closely resem-
bling Putrid — The patient is excessively irritated, comatose and
then delirious with torpid bowels and irregular remissions
and exacerbations — For early cure cannot be made to bleed.
We have here a difficult task to fulfil; our constant aim must
be, to support the flagging powers of the system, and at the same
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time keep the bowels in a soluble state. The most powerful stimuli of
 the Materia medica should be resorted to, and used both ex-
 ternally and internally; Blister, Senna forms to the extremities, the
 head should be shaved and if necessary a blister applied, Brandy
 &c. &c. &c. should all be resorted to in our power.
 If we should not answer we must try another, or as not to destroy the
 susceptibility by too constant a repetition of our airts. - At this jun-
 cture timidity in the use of Stimuli would be foolish & not criminal,
 and would be far preferable to over-stimulate than to allow the patient
 to die without the use of them - Under all these circumstances, his
 situation is alarming and distressing, but we should not in this oc-
 casion despair, a single well directed blow may vanquish the ~~en-~~
~~emy~~, and ensure us victory, doubt our efforts, and even should they
 prove fruitless, we will have at least the sublime consolation of hav-
 ing done our duty. — But I does not always happen
 that our endeavours are unrewarded, they are an often crowned by
 final recovery - It is seldom however that the patient is man-
 dated speedily from the hands of the physician, I shall therefore
 come to a close with a few remarks relative to the treatment
 of convalescence - And here our attention is called to two circumstances,

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hances, the liability to relapse, and the pre-disposition to various af-
fections, caused by this disease, on several important organs -
allow the bowels to be constipated, while at the same time
it should not increase debility by a crude purging. As he can
only derive strength from the proper assimilation of food, we
must attend to his diet; he should be allowed to eat frequently,
but in small quantities. Small portions of Beef, mutton and
veal, &c. are among the best articles - We must be regulated
by his former habits. If accustomed to them, thin soups and broths,
may be allowed sparingly - Should he be without appetite
himself, may be used such as Quina, Tonic, &c. The best, prope-
rations of iron and many others - One of the best is, exercise,
which should be proportioned to the strength and never carried
so far as to fatigue - The patient often complains of sleepless-
ness, for this also exercise is to be used, opium and also Hy-
poocamus. The last is, hart, an early good, having the advantage
of an opiate without constipating - For the mucous sore
mouth, blisters, astringent washes, cold frothy, cool dry air,
emollient tea, &c. are practiced - L^d Sell of Elixirs highly recom-
mends the Hydr. sulphur. of Potash - Amongst the best
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things to be observed with a convalescent patient is to remove him into another room, where this is impracticable, remove all the appendages of a sick room from his sight such as phials &c. in this way we may lead him to contrast his former gloom, with his now more flattering situation - More light should be admitted than formerly, he may see a little company, allow his room to be well ventilated, but never place him in a draught of air - do not permit him to engage his mind about former avocations, but should his time hang heavily upon his hands amusements of various sort may be continued for him, and he should be allowed every opportunity to return to his former employments - But after all our endeavours the will of the complaint of debility, slight fever, headache, costive bowels, and oedematous swellings - This is dangerous and denotes congestion of the liver and spleen. The pulse may here be used with advantage, and if not relieved a slight salivation will seldom fail of success - Cold bathing and above all Exercise is useful -

Having now considered the most important circumstances incident to this disease, I shall end by declaring that though this dyspepsia may be both ~~un~~important in matter, and defective in style, still I

and

would hold myself ready to vouch for the truth of the statements
and details of practice which it contains ————